NECAP Science 2014 Grade 4 Release Item Prediction Chart

DOK	Domain	Target	Prediction
2	Physical Science	PS1-1 Students will collect and organize data about physical	
	Ociciice		
2	Physical	PS2-6 Students will experiment observe or predict how	
_	Science		
2	Physical		
	Science		
		(i.e., attract or repel certain objects or has no effect)	
2	Earth/Space	ESS1-3 Students will explain how the use of scientific tools	
	Science	helps to extend senses and gather data about weather (i.e.,	
		weather/wind vane: direction; wind sock: wind intensity;	
2			
2			
	Science	· •	
	Forth/Chase		
2			
	Ocience		
2	Life Science		
	Life Science		
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2	Life Science		
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2	Life Science	LS3-7 Students will use information (data or scenario),	
		explain how changes in the environment can cause	
		organisms to respond (e.g., survive there and reproduce,	
		move away, die).	
	2 2 2 2 2 2	2 Physical Science 2 Physical Science 2 Physical Science 2 Physical Science 3 Earth/Space Science 4 Earth/Space Science 5 Earth/Space Science 6 Earth/Space Science 7 Earth/Space Science 7 Earth/Space Science 7 Life Science 7 Life Science	2 Physical Science Science PS1-1 Students will collect and organize data about physical properties in order to classify objects or draw conclusions about objects and their characteristic properties (e.g., temperature, color, size, shape, weight, texture, flexibility) 2 Physical Science PS2-6 Students will experiment, observe, or predict how heat might move from one object to another to other objects to describe the properties of magnetism (i.e., attract or repel certain objects or has no effect) 2 Earth/Space Science S



NECAP Science 2014 Grade 4 Inquiry Items Prediction Chart

Item	DOK	Domain	Target	Prediction
1	2	Inquiry	INQ 8 Use accepted methods for organizing, representing, and manipulating data.	
2	3	Inquiry	INQ 12 Use evidence to support and justify interpretations and conclusions or explain how the evidence refutes the hypothesis	
3	2	Inquiry	INQ 9 Collect sufficient data to study question, hypothesis, or relationships.	
4	2	Inquiry	INQ 6 Provide reasoning for appropriateness of materials, tools, procedures, and scale used in the investigation	
5	3	Inquiry	INQ 13 Communicate how scientific knowledge applies to explain results, propose further investigations, or construct and analyze alternative explanations.	
6	2	Inquiry	INQ 1 Analyze information from observations, research, or experimental data for the purpose of formulating a question, hypothesis, or prediction.	
7	3	Inquiry	INQ 4 Identify information/evidence that needs to be collected in order to answer the question, hypothesis, prediction.	
8	3	Inquiry	INQ 13 Communicate how scientific knowledge applies to explain results, propose further investigations, or construct and analyze alternative explanations.	

